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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,189	03/24/2004	Kie Ahn	400.085US03	4567
27073	7590	04/05/2006	EXAMINER	
LEFFERT JAY & POLGLAZE, P.A.			PHAM, LONG	
P.O. BOX 581009			ART UNIT	
MINNEAPOLIS, MN 55458-1009			PAPER NUMBER	
			2814	

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/808,189	<b>Applicant(s)</b> AHN ET AL.	
	<b>Examiner</b> Long Pham	<b>Art Unit</b> 2814	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 January 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-45 and 88-107 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2,27 and 88-107 is/are allowed.
- 6) ☒ Claim(s) 1, 3-26, 28-45, and 107 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
       Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
       Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Response to Arguments***

Applicant's arguments with respect to claims 1, 3-26, 28-45, and 88-107 have been considered but are moot in view of the new ground(s) of rejection.

**Rejections and/or objections necessitated by the amendments**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 18, as currently amended, 3, 4, 5, 12-16, 17, 19, 23, 24, and 25 as previously presented are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al. (US publication 2001/0024860).

With respect to currently amended claims 1 and 18 and 3, 4, 5, 12-16, 17, 19, 23, 24, and 25, Park et al. teach the claimed invention. See the rejection dated 10/17/05.

Further with respect to currently amended claims 1 and 18 and 3, 4, 5, 12-16, 17, 19, 23, 24, and 25, Park et al. teach the dopants below the surface of the aluminum oxide layer are filling or moving into the pores or vacancies or voids or are confined to the pores or vacancies or voids. See [0019] and [0020].

Claims 26 as currently amended, 28-30, 37-40, and 42 as previously presented are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al. (US publication 2001/0024860).

With respect to claim 26 as currently amended, and claims 28-30, 37-40, and 42 as previously presented, Park et al. teach the claimed invention. See the rejection dated 10/17/05.

Further with respect to claim 26 as currently amended, and claims 28-30, 37-40, and 42 as previously presented, Park et al. teach the dopants below the surface of the aluminum oxide layer are filling or moving into the pores or vacancies or voids or are confined to the pores or vacancies or voids. See [0019] and [0020].

***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 6-7, 8-11, 20-21, and 22 as previously presented are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (US publication 2001/0024860).

With respect to claims 6-7, 8-11, 20-21, and 22 as previously presented, See the rejection dated 10/17/05.

Claims 31-32, 33-36, 41, and 43-45 as previously presented, are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (US publication 2001/0024860).

With respect to claims 31-32, 33-36, 41, and 43-45 as previously presented, See the rejection dated 10/17/05.

***Allowable Subject Matter***

Claims 2, 27, and 88-107 are allowed.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is

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filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Long Pham  
Primary Examiner  
Art Unit 2814

LP